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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/770,050	01/24/2001	Jichen Wu	2011012	5628
7.	590 03/22/2002			
,	EXAMINER			
	THAI, LUAN C			
Saratoga, CA	95070-3018		2011012 562 EXAMINER THAI, LUAN C	PAPER NUMBER
			2827	
			DATE MAILED: 03/22/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

			<del></del>
	Application No.	Applicant(s)	•
•	09/770,050	WU ET AL.	
Office Action Summary	Examiner	Art Unit	
	Luan Thai	2827	
The MAILING DATE of this communication Period for Reply			S
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication  - If the period for reply specified above is less than thirty (30) days,  - If NO period for reply is specified above, the maximum statutory provided to reply within the set or extended period for reply will, by second and the second period for reply will, by second period for reply will, by second period for reply will, by second patent term adjustment. See 37 CFR 1.704(b).  Status	ON.  R 1.136(a). In no event, however, r n. a reply within the statutory minimum eriod will apply and will expire SIX (6)	nay a reply be timely filed  of thirty (30) days will be considered timely.  MONTHS from the mailing date of this communication of the	inication.
1) Responsive to communication(s) filed on	·		
2a) ☐ This action is <b>FINAL</b> . 2b) ☑	This action is non-final.		- 31- 1-
3) Since this application is in condition for a closed in accordance with the practice un Disposition of Claims	nder Ex parte Quayle, 19.	al matters, prosecution as to the m 35 C.D. 11, 453 O.G. 213.	nents is
4)⊠ Claim(s) <u>1-15</u> is/are pending in the applic	cation.	_	
4a) Of the above claim(s) is/are wit	hdrawn from consideratio	n.	
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-15</u> is/are rejected.			
7) Claim(s) is/are objected to.		-1	
8) Claim(s) are subject to restriction a	and/or election requireme	nt.	
Application Papers	ominer		
9) The specification is objected to by the Exa	accented or h) objected:	to by the Examiner.	
10) The drawing(s) filed on is/are: a) Applicant may not request that any objection	n to the drawing(s) be held in	abeyance. See 37 CFR 1.85(a).	
Applicant may not request that any objection  11) The proposed drawing correction filed on	is: a) ☐ approved	b) disapproved by the Examiner.	
If approved, corrected drawings are required	d in reply to this Office action	1.	
12) The oath or declaration is objected to by t			
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for t	foreign priority under 35 L	J.S.C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:	<u>-</u>		
1. Certified copies of the priority doc	uments have been receiv	ed.	
2 Certified copies of the priority doc	uments have been receiv	ed in Application No	
3. Copies of the certified copies of the	e priority documents have nal Bureau (PCT Rule 17	e been received in this National St .2(a)).	tage
* See the attached detailed Office action fo	ompetic priority under 35	U.S.C. § 119(e) (to a provisional a	ipplication).
14) Acknowledgment is made of a claim for di	one provisional application	has been received.	
a) ☐ The translation of the foreign langua 15)☐ Acknowledgment is made of a claim for d	lomestic priority under 35	U.S.C. §§ 120 and/or 121.	
Attachment(s)	<b>∧</b> □ :	nterview Summary (PTO-413) Paper No(s	) ·
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO-1449) Paper	948) 5) 🔲 1	Notice of Informal Patent Application (PTO)	-152)
LLS Patent and Trademark Office		Part of	Paper No. 2

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 2. Claims 1-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Glenn et al. (6,342,406).

The figures and reference numbers referred to in this office action are used merely to indicate an example of a specific teaching and are not to be taken as limiting.

Regarding claims 1-7, Glenn et al. (see figures 1-11) a package structure of an image sensor for electrically connecting to a printed circuit board, comprising: a glass transparent 110 having a first surface 110I formed with the signal input terminals 114A-114B and a second surface 110E opposite to the first surface and formed with the signal output terminals 116A-116B, wherein the terminals are formed by way of wire plating (Col. 8, lines 45+), and the output terminals are used for electrically connecting the glass transparent to the printed circuit board (Col. 4, lines 59+). Glenn et al. further disclose an image sensing chip 102 being formed with bond pads 106A-106B and being electrically connected to the glass transparent by way of flip chip bonding (e.g., bumps 112A-112B); a glue layer 130 provided to seal the electrical connecting portion

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between the image sensing chip and the glass transparent, wherein the image sensing chip 102 receives image signals via the glass transparent. Although Glenn et al. do not explicitly disclose that the image sensing chip 102 converts the image signals into electrical signals, and transmits the electrical signals from the signal output terminals of the glass transparent to the printed circuit board, these features are taken to be inherent in Glenn et al.'s glass image sensor package since converting image signals into electrical signals is a characteristic of an image sensor device (Col. 3, lines 54+) and it appear that Glenn et al.'s glass image sensor package does not distinguish from the claimed structure.

Regarding to claim 8-15, Glenn et al. (specifically see figures 4-11, Col. 8-11) further disclose the method steps recited all the limitations of the image sensor package described above as claimed in claims 8-15.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luan Thai whose telephone number is (703) 308-1211. The examiner can normally be reached on 7:00 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on (703) 305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Luan Thai March 18, 2002

DAVID L. TALBOTT PRIMARY EXAMINER

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